

04C0
H#7
OIPE

RAW SEQUENCE LISTING DATE: 09/20/2000
 PATENT APPLICATION: US/09/654,328 TIME: 12:20:48

Input Set : A:\B08017187.txt
 Output Set: N:\CRF3\09202000\I654328.raw

4 <110> APPLICANT: Brenner, Michael B.
 5 Valencia, Xavier
 7 <120> TITLE OF INVENTION: Methods and Compositions for Treatment
 8 of Inflammatory Disease Using Cadherin-11 Modulating Agents
 11 <130> FILE REFERENCE: B0801/7187/ERP/MAT
 C--> 14 <140> CURRENT APPLICATION NUMBER: US/09/654,328
 C--> 14 <141> CURRENT FILING DATE: 2000-09-01
 14 <150> PRIOR APPLICATION NUMBER: US 60/152,456
 16 <151> PRIOR FILING DATE: 1999-09-03
 18 <150> PRIOR APPLICATION NUMBER: US 60/153,490
 20 <151> PRIOR FILING DATE: 1999-09-13
 23 <160> NUMBER OF SEQ ID NOS: 12
 25 <170> SOFTWARE: FastSEQ for Windows Version 3.0
 27 <210> SEQ ID NO: 1
 28 <211> LENGTH: 2625
 29 <212> TYPE: DNA
 30 <213> ORGANISM: Homo Sapiens
 32 <220> FEATURE:
 33 <221> NAME/KEY: CDS
 34 <222> LOCATION: (156)...(2546)
 36 <400> SEQUENCE: 1
 37 cggcagccct gacgtgatga gctcaaccag cagagacatt ccatccaag agaggtctgc 60
 38 gtgacgcgtc cgggaggcca cctcagcaa gaccacgta cagttggtgg aaggggtgac 120
 39 agctgcattc tcctgtgcct accacgtaac caaaa atg aag gag aac tac tgt 173
 40 Met Lys Glu Asn Tyr Cys
 41 1 5
 43 tta caa gcc gcc ctg gtg tgc ctg ggc atg ctg tgc cac agc cat gcc 221
 44 Leu Gln Ala Ala Leu Val Cys Leu Gly Met Leu Cys His Ser His Ala
 45 10 15 20
 47 ttt gcc cca gag cgg cgg ggg cac ctg cgg ccc tcc ttc cat ggg cac 269
 48 Phe Ala Pro Glu Arg Arg Gly His Leu Arg Pro Ser Phe His Gly His
 49 25 30 35
 51 cat gag aag ggc aag gag ggg cag gtg cta cag cgc tcc aag cgt ggc 317
 52 His Glu Lys Gly Lys Glu Gly Gln Val Leu Gln Arg Ser Lys Arg Gly
 53 40 45 50
 55 tgg gtc tgg aac cag ttc ttc gtg ata gag gag tac acc ggg cct gac 365
 56 Trp Val Trp Asn Gln Phe Phe Val Ile Glu Glu Tyr Thr Gly Pro Asp
 57 55 60 65 70
 59 ccc gtg ctt gtg ggc agg ctt cat tca gat att gac tct ggt gat ggg 413
 60 Pro Val Leu Val Gly Arg Leu His Ser Asp Ile Asp Ser Gly Asp Gly
 61 75 80 85
 63 aac att aaa tac att ctc tca ggg gaa gga gct gga acc att ttt gtg 461
 64 Asn Ile Lys Tyr Ile Leu Ser Gly Glu Gly Ala Gly Thr Ile Phe Val
 65 90 95 100
 67 att gat gac aaa tca ggg aac att cat gcc acc aag acg ttg gat cga 509
 68 Ile Asp Asp Lys Ser Gly Asn Ile His Ala Thr Lys Thr Leu Asp Arg
 69 105 110 115

ENTERED

RAW SEQUENCE LISTING

DATE: 09/20/2000

PATENT APPLICATION: US/09/654,328

TIME: 12:20:48

Input Set : A:\B08017187.txt

Output Set: N:\CRF3\09202000\I654328.raw

```

71 gaa gag aga gcc cag tac acg ttg atg gct cag gcg gtg gac agg gac 557
72 Glu Glu Arg Ala Gln Tyr Thr Leu Met Ala Gln Ala Val Asp Arg Asp
73 120 125 130
75 acc aat cgg cca ctg gag cca ccg tcg gaa ttc att gtc aag gtc cag 605
76 Thr Asn Arg Pro Leu Glu Pro Pro Ser Glu Phe Ile Val Lys Val Gln
77 135 140 145 150
79 gac att aat gac aac cct ccg gag ttc ctg cac gag acc tat cat gcc 653
80 Asp Ile Asn Asp Asn Pro Pro Glu Phe Leu His Glu Thr Tyr His Ala
81 155 160 165
83 aac gtg cct gag agg tcc aat gtg gga acg tca gta atc cag gtg aca 701
84 Asn Val Pro Glu Arg Ser Asn Val Gly Thr Ser Val Ile Gln Val Thr
85 170 175 180
87 gct tca gat gca gat gac ccc act tat gga aat agc gcc aag tta gtg 749
88 Ala Ser Asp Ala Asp Asp Pro Thr Tyr Gly Asn Ser Ala Lys Leu Val
89 185 190 195
91 tac agt atc ctc gaa gga caa ccc tat ttt tct gtg gaa gca cag aca 797
92 Tyr Ser Ile Leu Glu Gly Gln Pro Tyr Phe Ser Val Glu Ala Gln Thr
93 200 205 210
95 ggt atc atc aga aca gcc cta ccc aac atg gac agg gag gcc aag gag 845
96 Gly Ile Ile Arg Thr Ala Leu Pro Asn Met Asp Arg Glu Ala Lys Glu
97 215 220 225 230
99 gag tac cac gtg gtg atc cag gcc aag gac atg ggt gga cat atg ggc 893
100 Glu Tyr His Val Val Ile Gln Ala Lys Asp Met Gly Gly His Met Gly
101 235 240 245
103 gga ctc tca ggg aca acc aaa gtg acg atc aca ctg acc gat gtc aat 941
104 Gly Leu Ser Gly Thr Thr Lys Val Thr Ile Thr Leu Thr Asp Val Asn
105 250 255 260
107 gac aac cca cca aag ttt ccg cag agg cta tac cag atg tct gtg tca 989
108 Asp Asn Pro Pro Lys Phe Pro Gln Arg Leu Tyr Gln Met Ser Val Ser
109 265 270 275
111 gaa gca gcc gtc cct ggg gag gaa gta gga aga gtg aaa gct aaa gat 1037
112 Glu Ala Ala Val Pro Gly Glu Glu Val Gly Arg Val Lys Ala Lys Asp
113 280 285 290
115 cca gac att gga gaa aat ggc tta gtc aca tac aat att gtt gat gga 1085
116 Pro Asp Ile Gly Glu Asn Gly Leu Val Thr Tyr Asn Ile Val Asp Gly
117 295 300 305 310
119 gat ggt atg gaa tct ttt gaa atc aca acg gac tat gaa aca cag gag 1133
120 Asp Gly Met Glu Ser Phe Glu Ile Thr Thr Asp Tyr Glu Thr Gln Glu
121 315 320 325
123 ggg gtg ata aag ctg aaa aag cct gta gat ttt gaa acc gaa aga gcc 1181
124 Gly Val Ile Lys Leu Lys Lys Pro Val Asp Phe Glu Thr Glu Arg Ala
125 330 335 340
127 tat agc ttg aag gta gag gca gcc aac gtg cac atc gac ccg aag ttt 1229
128 Tyr Ser Leu Lys Val Glu Ala Ala Asn Val His Ile Asp Pro Lys Phe
129 345 350 355
131 atc agc aat ggc cct ttc aag gac act gtg acc gtc aag atc tca gta 1277
132 Ile Ser Asn Gly Pro Phe Lys Asp Thr Val Thr Val Lys Ile Ser Val
133 360 365 370
135 gaa gat gct gat gag ccc cct atg ttc ttg gcc cca agt tac atc cac 1325

```

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/654,328

DATE: 09/20/2000
 TIME: 12:20:48

Input Set : A:\B08017187.txt
 Output Set: N:\CRF3\09202000\I654328.raw

136	Glu Asp Ala Asp Glu Pro Pro Met Phe Leu Ala Pro Ser Tyr Ile His	
137	375 380 385 390	
139	gaa gtc caa gaa aat gca gct gct ggc acc gtg gtt ggg aga gtg cat	1373
140	Glu Val Gln Glu Asn Ala Ala Ala Gly Thr Val Val Gly Arg Val His	
141	395 400 405	
143	gcc aaa gac cct gat gct gcc aac agc ccg ata agg tat tcc atc gat	1421
144	Ala Lys Asp Pro Asp Ala Ala Asn Ser Pro Ile Arg Tyr Ser Ile Asp	
145	410 415 420	
147	cgt cac act gac ctc gac aga ttt ttc act att aat cca gag gat ggt	1469
148	Arg His Thr Asp Leu Asp Arg Phe Phe Thr Ile Asn Pro Glu Asp Gly	
149	425 430 435	
151	ttt att aaa act aca aaa cct ctg gat aga gag gaa aca gcc tgg ctc	1517
152	Phe Ile Lys Thr Thr Lys Pro Leu Asp Arg Glu Glu Thr Ala Trp Leu	
153	440 445 450	
155	aac atc act gtc ttt gca gca gaa atc cac aat cgg cat cag gaa gcc	1565
156	Asn Ile Thr Val Phe Ala Ala Glu Ile His Asn Arg His Gln Glu Ala	
157	455 460 465 470	
159	caa gtc cca gtg gcc att agg gtc ctt gat gtc aac gat aat gct ccc	1613
160	Gln Val Pro Val Ala Ile Arg Val Leu Asp Val Asn Asp Asn Ala Pro	
161	475 480 485	
163	aag ttt gct gcc cct tat gaa ggt ttc atc tgt gag agt gat cag acc	1661
164	Lys Phe Ala Ala Pro Tyr Glu Gly Phe Ile Cys Glu Ser Asp Gln Thr	
165	490 495 500	
167	aag cca ctt tcc aac cag cca att gtt aca att agt gca gat gac aag	1709
168	Lys Pro Leu Ser Asn Gln Pro Ile Val Thr Ile Ser Ala Asp Asp Lys	
169	505 510 515	
171	gat gac acg gcc aat gga cca aga ttt atc ttc agc cta ccc cct gaa	1757
172	Asp Asp Thr Ala Asn Gly Pro Arg Phe Ile Phe Ser Leu Pro Pro Glu	
173	520 525 530	
175	atc att cac aat cca aat ttc aca gtc aga gac aac cga gat aac aca	1805
176	Ile Ile His Asn Pro Asn Phe Thr Val Arg Asp Asn Arg Asp Asn Thr	
177	535 540 545 550	
179	gca ggc gtg tac gcc cgg cgt gga ggg ttc agt cgg cag aag cag gac	1853
180	Ala Gly Val Tyr Ala Arg Arg Gly Gly Phe Ser Arg Gln Lys Gln Asp	
181	555 560 565	
183	ttg tac ctt ctg ccc ata gtg atc agc gat ggc ggc atc ccg ccc atg	1901
184	Leu Tyr Leu Leu Pro Ile Val Ile Ser Asp Gly Gly Ile Pro Pro Met	
185	570 575 580	
187	agt agc acc aac acc ctc acc atc aaa gtc tgc ggg tgc gac gtg aac	1949
188	Ser Ser Thr Asn Thr Leu Thr Ile Lys Val Cys Gly Cys Asp Val Asn	
189	585 590 595	
191	ggg gca ctg ctc tcc tgc aac gca gag gcc tac att ctg aac gcc ggc	1997
192	Gly Ala Leu Leu Ser Cys Asn Ala Glu Ala Tyr Ile Leu Asn Ala Gly	
193	600 605 610	
195	ctg agc aca ggc gcc ctg atc gcc atc ctc gcc tgc atc gtc att ctc	2045
196	Leu Ser Thr Gly Ala Leu Ile Ala Ile Leu Ala Cys Ile Val Ile Leu	
197	615 620 625 630	
199	ctg gtc att gta gta ttg ttt gtg acc ctg aga agg caa aag aaa gaa	2093
200	Leu Val Ile Val Val Leu Phe Val Thr Leu Arg Arg Gln Lys Lys Glu	

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/654,328
 DATE: 09/20/2000
 TIME: 12:20:48

Input Set : A:\B08017187.txt
 Output Set: N:\CRF3\09202000\I654328.raw

```

201          635          640          645
203 cca ctc att gtc ttt gag gaa gaa gat gtc cgt gag aac atc att act 2141
204 Pro Leu Ile Val Phe Glu Glu Glu Asp Val Arg Glu Asn Ile Ile Thr
205          650          655          660
207 tat gat gat gaa ggg ggt ggg gaa gaa gac aca gaa gcc ttt gat att 2189
208 Tyr Asp Asp Glu Gly Gly Gly Glu Glu Asp Thr Glu Ala Phe Asp Ile
209          665          670          675
211 gcc acc ctc cag aat cct gat ggt atc aat gga ttt atc ccc cgc aaa 2237
212 Ala Thr Leu Gln Asn Pro Asp Gly Ile Asn Gly Phe Ile Pro Arg Lys
213          680          685          690
215 gac atc aaa cct gag tat cag tac atg cct aga cct ggg ctc cgg cca 2285
216 Asp Ile Lys Pro Glu Tyr Gln Tyr Met Pro Arg Pro Gly Leu Arg Pro
217          695          700          705          710
219 gcg ccc aac agc gtg gat gtc gat gac ttc atc aac acg aga ata cag 2333
220 Ala Pro Asn Ser Val Asp Val Asp Asp Phe Ile Asn Thr Arg Ile Gln
221          715          720          725
223 gag gca gac aat gac ccc acg gct cct cct tat gac tcc att caa atc 2381
224 Glu Ala Asp Asn Asp Pro Thr Ala Pro Pro Tyr Asp Ser Ile Gln Ile
225          730          735          740
227 tac ggt tat gaa ggc agg ggc tca gtg gcc ggg tcc ctg agc tcc cta 2429
228 Tyr Gly Tyr Glu Gly Arg Gly Ser Val Ala Gly Ser Leu Ser Ser Leu
229          745          750          755
231 gag tcg gcc acc aca gat tca gac ttg gac tat gat tat cta cag aac 2477
232 Glu Ser Ala Thr Thr Asp Ser Asp Leu Asp Tyr Asp Tyr Leu Gln Asn
233          760          765          770
235 tgg gga cct cgt ttt aag aaa cta gca gat ttg tat ggt tcc aaa gac 2525
236 Trp Gly Pro Arg Phe Lys Lys Leu Ala Asp Leu Tyr Gly Ser Lys Asp
237          775          780          785          790
239 act ttt gat gac gat tct taa caataacgat acaaatttgg ccttaagaac 2576
240 Thr Phe Asp Asp Asp Ser *
241          795
243 tgtgtctggc gttctcaaga atctagaaga tgtgtaacag gtatttttt 2625
245 <210> SEQ ID NO: 2
246 <211> LENGTH: 796
247 <212> TYPE: PRT
248 <213> ORGANISM: Homo Sapiens
250 <400> SEQUENCE: 2
251 Met Lys Glu Asn Tyr Cys Leu Gln Ala Ala Leu Val Cys Leu Gly Met
252 1 5 10 15
253 Leu Cys His Ser His Ala Phe Ala Pro Glu Arg Arg Gly His Leu Arg
254 20 25 30
255 Pro Ser Phe His Gly His His Glu Lys Gly Lys Glu Gly Gln Val Leu
256 35 40 45
257 Gln Arg Ser Lys Arg Gly Trp Val Trp Asn Gln Phe Phe Val Ile Glu
258 50 55 60
259 Glu Tyr Thr Gly Pro Asp Pro Val Leu Val Gly Arg Leu His Ser Asp
260 65 70 75 80
261 Ile Asp Ser Gly Asp Gly Asn Ile Lys Tyr Ile Leu Ser Gly Glu Gly
262 85 90 95

```

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/654,328

DATE: 09/20/2000
 TIME: 12:20:48

Input Set : A:\B08017187.txt
 Output Set: N:\CRF3\09202000\I654328.raw

```

263 Ala Gly Thr Ile Phe Val Ile Asp Asp Lys Ser Gly Asn Ile His Ala
264           100           105           110
265 Thr Lys Thr Leu Asp Arg Glu Glu Arg Ala Gln Tyr Thr Leu Met Ala
266           115           120           125
267 Gln Ala Val Asp Arg Asp Thr Asn Arg Pro Leu Glu Pro Pro Ser Glu
268           130           135           140
269 Phe Ile Val Lys Val Gln Asp Ile Asn Asp Asn Pro Pro Glu Phe Leu
270           145           150           155           160
271 His Glu Thr Tyr His Ala Asn Val Pro Glu Arg Ser Asn Val Gly Thr
272           165           170           175
273 Ser Val Ile Gln Val Thr Ala Ser Asp Ala Asp Asp Pro Thr Tyr Gly
274           180           185           190
275 Asn Ser Ala Lys Leu Val Tyr Ser Ile Leu Glu Gly Gln Pro Tyr Phe
276           195           200           205
277 Ser Val Glu Ala Gln Thr Gly Ile Ile Arg Thr Ala Leu Pro Asn Met
278           210           215           220
279 Asp Arg Glu Ala Lys Glu Glu Tyr His Val Val Ile Gln Ala Lys Asp
280           225           230           235           240
281 Met Gly Gly His Met Gly Gly Leu Ser Gly Thr Thr Lys Val Thr Ile
282           245           250           255
283 Thr Leu Thr Asp Val Asn Asp Asn Pro Pro Lys Phe Pro Gln Arg Leu
284           260           265           270
285 Tyr Gln Met Ser Val Ser Glu Ala Ala Val Pro Gly Glu Glu Val Gly
286           275           280           285
287 Arg Val Lys Ala Lys Asp Pro Asp Ile Gly Glu Asn Gly Leu Val Thr
288           290           295           300
289 Tyr Asn Ile Val Asp Gly Asp Gly Met Glu Ser Phe Glu Ile Thr Thr
290           305           310           315           320
291 Asp Tyr Glu Thr Gln Glu Gly Val Ile Lys Leu Lys Lys Pro Val Asp
292           325           330           335
293 Phe Glu Thr Glu Arg Ala Tyr Ser Leu Lys Val Glu Ala Ala Asn Val
294           340           345           350
295 His Ile Asp Pro Lys Phe Ile Ser Asn Gly Pro Phe Lys Asp Thr Val
296           355           360           365
297 Thr Val Lys Ile Ser Val Glu Asp Ala Asp Glu Pro Pro Met Phe Leu
298           370           375           380
299 Ala Pro Ser Tyr Ile His Glu Val Gln Glu Asn Ala Ala Ala Gly Thr
300           385           390           395           400
301 Val Val Gly Arg Val His Ala Lys Asp Pro Asp Ala Ala Asn Ser Pro
302           405           410           415
303 Ile Arg Tyr Ser Ile Asp Arg His Thr Asp Leu Asp Arg Phe Phe Thr
304           420           425           430
305 Ile Asn Pro Glu Asp Gly Phe Ile Lys Thr Thr Lys Pro Leu Asp Arg
306           435           440           445
307 Glu Glu Thr Ala Trp Leu Asn Ile Thr Val Phe Ala Ala Glu Ile His
308           450           455           460
309 Asn Arg His Gln Glu Ala Gln Val Pro Val Ala Ile Arg Val Leu Asp
310           465           470           475           480
311 Val Asn Asp Asn Ala Pro Lys Phe Ala Ala Pro Tyr Glu Gly Phe Ile

```

VERIFICATION SUMMARY DATE: 09/20/2000
PATENT APPLICATION: US/09/654,328 TIME: 12:20:49

Input Set : A:\B08017187.txt
Output Set: N:\CRF3\09202000\I654328.raw

L:14 M:270 C: Current Application Number differs, Replaced Current Application No
L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:411 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:428 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8